

Title (en)
Secondary battery.

Title (de)
Sekundärbatterie.

Title (fr)
Batterie secondaire.

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Application
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- JP 10010285 A 19850511
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- JP 13067885 A 19850618

Abstract (en)
This invention provides a secondary battery in a nonaqueous type using a substance indicated in I below and/or a substance indicated in II below as an active material for either of positive and negative electrodes:I: a composite oxide possessing a layer structure and represented by the general formula:wherein A stands for at least one alkali metal, M for a transition metal, N for at least one member selected from the group consisting of Al, In, and Sn, and x, y, and z respectively for the number falling in a specific range,II: an n-doped carbonaceous material which has a BET-method specific surface area, and a crystal thickness, Lc, in the X-ray diffraction and a true density, p, both having the values falling in a specific range.The secondary battery of this invention is small and light, excels in cyclicity and self-discharging property, and possesses a high energy density.

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IPC 8 full level
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Cited by
EP0498049A1; EP2301993A4; EP0345707A1; EP2187468A4; EP0814522A3; EP0782206A1; EP0227056A3; US5432029A; EP0627776A3; US5514488A; EP0404578A1; EP0704922A4; EP0652602A3; US5571638A; EP0582410A1; US5352548A; EP0838871A1; US5998064A; EP0239410A3; EP2192641A4; EP0700106A3; EP0712172A3; EP0346088A1; US4978600A; US5080930A; US9806342B2; US9000085B2; US8841029B2; US6686093B1; US10490813B2; US9070933B2; US5795558A; JP2015178583A; US6447739B1; US8329293B2; US8877384B2; WO0077869A1; WO9624957A1

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